

Author Index to Volume 215

- Åberg, U., E. Åkesson and V. Sundström, Excited state dynamics of barrierless isomerization in solution 215 (1993) 388
- Abner, D., see J. Holtgrave 215 (1993) 548
- Adachi, H., see T. Mukoyama 215 (1993) 93
- Agafonov, V., see B. Keita 215 (1993) 125
- Ahn, J.S., Y. Kanematsu, M. Enomoto and T. Kushida, Determination of weighted density of states of vibrational modes in Zn-substituted myoglobin 215 (1993) 336
- Ajayan, P.M., J.M. Lambert, P. Bernier, L. Barbedette, C. Colliex and J.M. Planeix, Growth morphologies during cobalt-catalyzed single-shell carbon nanotube synthesis 215 (1993) 509
- Åkesson, E., see U. Åberg 215 (1993) 388
- Aksela, H., see O.-P. Sairanen 215 (1993) 353
- Aksela, S., see O.-P. Sairanen 215 (1993) 353
- Akselrod, L., H.J. Byrne, C. Thomsen and S. Roth, Reversible photochemical processes in fullerenes. A Raman study 215 (1993) 131
- Amosov, K.A., see S.A. Nizkorodov 215 (1993) 662
- André, D., see B. Keita 215 (1993) 125
- Angerhofer, A., see G.G. Lazarev 215 (1993) 375
- Aono, S., see H. Nagao 215 (1993) 5
- Aruga, T., see T. Takaoka 215 (1993) 523
- Ataev, M., see B.Z. Gorbunov 215 (1993) 31
- Atkinson, J.B., see W. Kedzierski 215 (1993) 185
- Baker, J., V.C. Gibbons and P.A. Hamilton, Fourier transform optogalvanic spectroscopy 215 (1993) 163
- Balasubramanian, K., see M. Vijayakumar 215 (1993) 87
- Balasubramanian, K., see S. Roszak 215 (1993) 427
- Baram, A., I. Last and M. Bear, Quantum-mechanical cross sections for the $D+H_2$ and $H+D_2$ reactive systems. Application of the negative imaginary potentials within the j_z approximation (Chem. Phys. Letters 212 (1993) 649). Erratum 215 (1993) 416
- Barbedette, L., see P.M. Ajayan 215 (1993) 509
- Barone, V. and P. Cristinziano, Theoretical investigation of the torsional potential of 2,2'-bipyrimidine 215 (1993) 40
- Bauschlicher Jr., C.W. and H. Partridge, The vibrational frequencies of CH_2OH 215 (1993) 451
- Bear, M., see A. Baram 215 (1993) 416
- Bénière, F.M., A. Boutin, M. Trache and A.H. Fuchs, Structural properties of $(SF_6)_{13}$ and $(SF_6)_{55}$ clusters by molecular dynamics simulation 215 (1993) 301
- Bernier, P., see P.M. Ajayan 215 (1993) 509
- Besenbacher, F., see M. Foss 215 (1993) 535
- Billing, G.D. and R.E. Kolesnick, Semi-classical calculations of rate constants for vibrational transitions in hydrogen 215 (1993) 571
- Bintz, K.L., D.L. Thompson, K.L. Kompa and R.D. Levine, The direct overtone pumping of polyatomic molecules 215 (1993) 455

- Bittl, R., Matrix elements of spin operators in exchange coupled tetrameric metal clusters 215 (1993) 279
- Blasberg, T. and D. Suter, Nuclear spin relaxation of Pr^{3+} in YAlO_3 . A temperature-dependent optical-rf double-resonance study 215 (1993) 668
- Blasse, G., G.J. Dirksen, P. Zhiwu, G. Wehrum and R. Hoppe, Luminescence and energy migration in $\text{Ba}_3\text{NaNbO}_6$ and $\text{Ba}_3\text{NaTaO}_6$ 215 (1993) 363
- Blechta, V. and R. Freeman, Multi-site Hadamard NMR spectroscopy 215 (1993) 341
- Bludský, O., see R. Kobayashi 215 (1993) 576
- Bo, C., see C. Sousa 215 (1993) 97
- Bonosi, F., see G. Ricciardi 215 (1993) 541
- Botschwina, P., M. Oswald, J. Flügge, Ä. Heyl and R. Oswald, Ab initio spectroscopic constants and the equilibrium geometry of HCCF (Chem. Phys. Letters 209 (1993) 117). Erratum 215 (1993) 681
- Boutin, A., see F.M. Bénére 215 (1993) 301
- Bradshaw, A.M., see B. Rausenberger 215 (1993) 109
- Bradshaw, A.M., see M. Ondřejček 215 (1993) 528
- Brenner, L.J., J. Senekowitsch and R.E. Wyatt, Coupled cluster calculation of the in-plane harmonic force field of benzene 215 (1993) 63
- Byrne, H.J., see L. Akselrod 215 (1993) 131
- Céolin, R., see B. Keita 215 (1993) 125
- Cháb, V., see M. Ondřejček 215 (1993) 528
- Chakrabarti, A., S. Yashonath and C.N.R. Rao, Orientational glassy phases of C_{60} and neopentane. A Monte Carlo study 215 (1993) 591
- Charra, F., see J.-M. Nunzi 215 (1993) 114
- Chvoj, Z., see M. Ondřejček 215 (1993) 528
- Ciesielski, W., see N.D. Kushch 215 (1993) 137
- Colliex, C., see P.M. Ajayan 215 (1993) 509
- Conrad, H., see M. Ondřejček 215 (1993) 528
- Coombe, R.D., see S.M. Singleton 215 (1993) 237
- Cremer, D., see L. Olsson 215 (1993) 433
- Cristinziano, P., see V. Barone 215 (1993) 40
- Darmanyan, A.P., Mechanism of singlet oxygen interaction with solvent removing prohibition of the radiative $^1\Delta_g \rightarrow ^3\Sigma_g^-$ transition in oxygen 215 (1993) 477
- Davis, H.F., P.I. Ionov, S.I. Ionov and C. Wittig, Picosecond resolution measurements of NO_3 unimolecular decomposition. The $\text{NO} + \text{O}_2$ channel 215 (1993) 214
- Depaemelaere, S., L. Viaene, M. Van der Auweraer, F.C. De Schryver, R.M. Hermant and J.W. Verhoeven, Non-radiative decay processes of the intramolecular charge transfer state in a rigid bichromophoric system 215 (1993) 649
- De Schryver, F.C., see S. Depaemelaere 215 (1993) 649
- Dibble, T.S. and J.S. Francisco, An ab initio study of the reaction of atomic fluorine and chlorine with trifluoroacetaldehyde 215 (1993) 409
- Dibble, T.S. and J.S. Francisco, FNO_2 : improving calculated structures at the second-order Møller-Plesset level of theory 215 (1993) 423
- Dirksen, G.J., see G. Blasse 215 (1993) 363
- Donley, E.A. and D.P. Shelton, Hyperpolarizabilities measured for interacting molecular pairs 215 (1993) 156

- Dressler, R.A., S. Williams, S.T. Graul, R.H. Salter and E. Murad, Guided-ion beam measurements of the $\text{Kr}^+ + \text{NO}$ charge-transfer reaction 215 (1993) 656
Dugué, J., see B. Keita 215 (1993) 125
- Ebata, T., see S. Tanabe 215 (1993) 347
Egsgaard, H., see E.L. Thomsen 215 (1993) 257
Ellert, Ch., see Th. Reiners 215 (1993) 357
El Misiery, A.M., see A.S. Shalabi 215 (1993) 275
Engdahl, C. and B.I. Lundqvist, Influence of the initial rotational state on the dissociation of hydrogen on copper 215 (1993) 103
Engel, W., see B. Rausenberger 215 (1993) 109
Engel, W., see M. Ondřejček 215 (1993) 528
Enomoto, M., see J.S. Ahn 215 (1993) 336
Erman, P., A. Karawajczyk, E. Rachlew-Källne, C. Strömholm, J. Larsson, A. Persson and R. Zerne, Direct determination of the ionization potential of CO by resonantly enhanced multiphoton ionization mass spectroscopy 215 (1993) 173
Eryomin, V.V., see S.I. Vetchinkin 215 (1993) 11
- Fabre, C., see B. Keita 215 (1993) 125
Fehér, M., see T. Pasinszki 215 (1993) 395
Fehér, M. and P.A. Martin, Ab initio calculations of the properties of NO^+ in its ground electronic state $X^1\Sigma$ 215 (1993) 565
Felder, P., X. Yang and J.R. Huber, Photodissociation of nitric acid in a cold molecular beam at 193 nm 215 (1993) 221
Fichou, D., see J.-M. Nunzi 215 (1993) 114
Flügge, J., see P. Botschwina 215 (1993) 681
Foss, M., F. Besenbacher, C. Klink and I. Stensgaard, Deuterium-induced restructuring of Cu(100) 215 (1993) 535
Francisco, J.S. and Y. Su, An ab initio study of the reaction between FO radicals and H_2O 215 (1993) 58
Francisco, J.S., see T.S. Dibble 215 (1993) 409, 423
Francisco, J.S. and Y. Su, A computational study of the reaction between FO radicals and methane 215 (1993) 417
Frederick, J.H., see V.D. Vachev 215 (1993) 306
Freeman, R., see V. Blechta 215 (1993) 341
Fuchs, A.H., see F.M. Bénérière 215 (1993) 301
Fujii, M., see S. Tanabe 215 (1993) 347
Fukazawa, N., see S. Yamamoto 215 (1993) 323
Fukumura, H., see S. Yamamoto 215 (1993) 323
Fulde, P., see J. Gräfenstein 215 (1993) 611
- Garofalini, S.H., see F. Liu 215 (1993) 401
Gibbons, V.C., see J. Baker 215 (1993) 163
Goldman, S., see C.G. Joslin 215 (1993) 144
Gorbunov, B.Z., E.L. Zapadinsky, K.K. Sabelfeld and M. Ataev, Influence of inhomogeneity and fluctuations of supersaturation on heterogeneous nucleation 215 (1993) 31
Gräfenstein, J., H. Stoll and P. Fulde, Computation of the valence band of diamond by means of local increments 215 (1993) 611

Graja, A., see N.D. Kushch	215 (1993) 137
Graul, S.T., see R.A. Dressler	215 (1993) 656
Gray, C.G., see C.G. Joslin	215 (1993) 144
Grishanin, B.A., see V.D. Vachev	215 (1993) 306
Haaland, P.D., see J. Holtgrave	215 (1993) 548
Haberland, H., see Th. Reiners	215 (1993) 357
Habu, M., see H. Sekiya	215 (1993) 641
Hamanoue, K., see T. Nakayama	215 (1993) 622
Hamilton, P.A., see J. Baker	215 (1993) 163
Handa, Y.P., see J.S. Tse	215 (1993) 383
Hase, H. and Y. Miyatake, Electronic spectra of C ₇₀ anions produced in γ -irradiated organic glasses at 77 K	215 (1993) 141
Haselbach, E., see E. Vauthey	215 (1993) 264
Hayashi, H., see M. Wakasa	215 (1993) 631
He, Y., M. Quack, R. Ranz and G. Seyfang, Diode laser detection of iodine atom hyperfine transitions during and after infrared multiphoton excitation and dissociation of CF ₃ I with short pulse CO ₂ lasers	215 (1993) 228
Hermant, R.M., see S. Depaemelaere	215 (1993) 649
Herrero, C.P., Framework dependence of atom ordering in tectosilicates. A lattice gas model	215 (1993) 587
Heyl, Ä., see P. Botschwina	215 (1993) 681
Hillier, I.H., see P.E. Young	215 (1993) 405
Hoeft, J. and T. Törring, The microwave rotational spectrum of X ² Σ^+ YO	215 (1993) 367
Hoeft, J. and K.P.R. Nair, Millimeter wave rotational spectrum of gallium monofluoride	215 (1993) 371
Hogreve, H., The ground state geometry of the Ne ₃ ⁺ trimer	215 (1993) 72
Holme, T.A. and T.N. Truong, A test of density functional theory for dative bonding systems	215 (1993) 53
Holovko, M.F., see Yu.V. Kalyuzhnyi	215 (1993) 1
Holtgrave, J., K. Riehl, D. Abner and P.D. Haaland, Ion chemistry in tetraethylorthosilicate (C ₂ H ₅ O) ₄ Si	215 (1993) 548
Holtom, G.R., see R. Knochenmuss	215 (1993) 188
Hoppe, R., see G. Blasse	215 (1993) 363
Horiai, K., see H. Uehara	215 (1993) 505
Hotokka, M., see O.-P. Sairanen	215 (1993) 353
Huber, J.R., see P. Felder	215 (1993) 221
Hurwitz, Y., Y. Rudich and R. Naaman, Reactant rotational energy effect on energy distribution in products. The role of the electronic angular momentum	215 (1993) 674
Ibuki, K., see T. Nakayama	215 (1993) 622
Illas, F., see C. Sousa	215 (1993) 97
Ionov, P.I., see H.F. Davis	215 (1993) 214
Ionov, S.I., see H.F. Davis	215 (1993) 214
Ito, S., see H. Sekiya	215 (1993) 499
Ito, Y., see K. Yamasaki	215 (1993) 483
Jacques, P., see E. Vauthey	215 (1993) 264
Jonker, M., see G. van den Hoek	215 (1993) 461
Jørgensen, P., see R. Kobayashi	215 (1993) 576

Joslin, C.G., C.G. Gray, S. Goldman, J. Yang and J.D. Poll, Raman spectra of endohedral fullerenes. $\text{Li}^+ @ \text{C}_{60}$	215 (1993) 144
Jouvet, C., see S. Martrenchard-Barra	215 (1993) 291
Kalcher, J. and A.F. Sax, Stabilities and stationary points for singlet and triplet states of the Si_2H^- anion	215 (1993) 601
Kalyuzhnyi, Yu.V., I.A. Protsykevych and M.F. Holovko, Solution of the associative Percus-Yevick approximation for the n -component mixture of dimerizing hard spheres	215 (1993) 1
Kalyuzhnyi, Yu.V. and V. Vlachy, Integral equation theory for highly asymmetric electrolyte solutions	215 (1993) 518
Kanematsu, Y., see J.S. Ahn	215 (1993) 336
Karawajczyk, A., see P. Erman	215 (1993) 173
Kaufman, J.J., see S. Roszak	215 (1993) 427
Kawai, A., Y. Kobori and K. Obi, Time-resolved ESR spectra of the α -hydroxybenzyl-amine complex	215 (1993) 203
Kawai, M., see N. Takagi	215 (1993) 120
Kedzierski, W., J.B. Atkinson and L. Krause, Laser-induced fluorescence from the $^3\Pi_u(4^3P, 4^3P)$ state of Zn_2	215 (1993) 185
Keita, B., L. Nadjo, R. Céolin, V. Agafonov, D. André, H. Szwarc, J. Dugué, C. Fabre, A. Rassat and P.-Y. Sizaret, Scanning tunneling microscopy study of the surface of C_{60} decagonal crystals grown from n -hexane	215 (1993) 125
Khmelniskii, I.V., see S.A. Nizkorodov	215 (1993) 662
King-Smith, R.D., see F. Liu	215 (1993) 401
Klink, C., see M. Foss	215 (1993) 535
Knochenmuss, R., G.R. Holtom and D. Ray, Proton transfer reaction rates as a probe of size-dependent properties of large water clusters	215 (1993) 188
Kobayashi, R., O. Bludský, H. Koch and P. Jørgensen, Quartic coupled cluster force fields for the diazene isomers	215 (1993) 576
Kobori, Y., see A. Kawai	215 (1993) 203
Koch, H., see R. Kobayashi	215 (1993) 576
Kolesnick, R.E., see G.D. Billing	215 (1993) 571
Komaromi, I. and J.M.J. Tronchet, The geometry of the H_2NO radical: do the quantum mechanical results converge?	215 (1993) 444
Kominami, K., see K. Sakoda	215 (1993) 488
Kompa, K.L., see K.L. Bintz	215 (1993) 455
Konno, T., see H. Uehara	215 (1993) 505
Koroteev, N.I., see V.D. Vachev	215 (1993) 306
Koski, W.S., see S. Roszak	215 (1993) 427
Kotschubei, S.A., see S.A. Nizkorodov	215 (1993) 662
Krause, L., see W. Kedzierski	215 (1993) 185
Kubach, C., see G. Nguyen Vien	215 (1993) 35
Kukolich, S.G. and S.M. Sickafoose, The microwave spectrum and Mn-H bond length for $\text{HMn}(\text{CO})_5$	215 (1993) 168
Kusalik, P.G., see I.M. Svishchev	215 (1993) 596
Kushch, N.D., I. Majchrzak, W. Ciesielski and A. Graja, Preparation and spectral properties of $\text{C}_{60}\text{S}_{16} \cdot 0.5\text{C}_6\text{H}_5\text{Cl}$ and $\text{C}_{60} \cdot 0.5\text{C}_6\text{H}_5\text{Cl}$ compounds	215 (1993) 137
Kushida, T., see J.S. Ahn	215 (1993) 336

Kuskov, V.L., see G.G. Lazarev	215 (1993) 375
Lambert, J.M., see P.M. Ajayan	215 (1993) 509
Lantz, K.O. and V. Vaida, Direct absorption spectroscopy of the first excited electronic band of jet-cooled H ₂ S	215 (1993) 329
Lardeux-Dedonder, C., see S. Martrenchard-Barra	215 (1993) 291
Larsson, J., see P. Erman	215 (1993) 173
Last, I., see A. Baram	215 (1993) 416
Laukenmann, K., see G.G. Lazarev	215 (1993) 375
Lazarev, G.G., V.L. Kuskov, K. Laukenmann and A. Angerhofer, Spin dynamics of neutral radical pairs in single crystals of di-tert-butyl-pyrocatechol doped with tetrakis(<i>t</i> -butyl)-phenoxazin	215 (1993) 375
Lebedev, Ya.S., see D.S. Tipikin	215 (1993) 199
Legon, A.C. and J.C. Thorn, Equilibrium nuclear quadrupole coupling constants from the rotational spectrum of BrCl: a source of the electric quadrupole moment ratios $Q(^{79}\text{Br})/Q(^{81}\text{Br})$ and $Q(^{35}\text{Cl})/Q(^{37}\text{Cl})$	215 (1993) 554
Lelj, F., see G. Ricciardi	215 (1993) 541
Levine, R.D., see K.L. Bintz	215 (1993) 455
Liu, F., S.H. Garofalini, R.D. King-Smith and D. Vanderbilt, Structural and electronic properties of sodium metasilicate	215 (1993) 401
Lundqvist, B.I., see C. Engdahl	215 (1993) 103
Majchrzak, I., see N.D. Kushch	215 (1993) 137
Makarov, V.I., see S.A. Nizkorodov	215 (1993) 662
Marian, C.M., Stability and the CO stretching vibrational frequency of molecular AgCO	215 (1993) 582
Martin, P.A., see M. Fehér	215 (1993) 565
Martrenchard-Barra, S., C. Jouvet, C. Lardeux-Dedonder and D. Solgadi, Molecular dynamics simulations of the formation process of very small doubly charged para-difluorobenzene clusters produced in a supersonic expansion	215 (1993) 291
Maruyama, K., see A. Osuka	215 (1993) 179
Masuhara, H., see S. Yamamoto	215 (1993) 323
Mataga, N., see A. Osuka	215 (1993) 179
McClean, R.E. and L. Pasternack, Kinetics of the reactions $\text{VO}(\text{X}^4\Sigma^-) + \text{O}_2$, NO, and CO ₂	215 (1993) 209
Mesbah, S., see Z.D. Popovic	215 (1993) 636
Mikami, N., see S. Tanabe	215 (1993) 347
Mikušik, P. and Š. Pick, Tight-binding study of the electronic structure of Pd and Pt epitaxial overlayers on hcp transition metal surfaces	215 (1993) 319
Miyatake, Y., see H. Hase	215 (1993) 141
Mizuma, H., see S. Yamamoto	215 (1993) 323
Mori, A., see H. Sekiya	215 (1993) 641
Mukoyama, T. and H. Adachi, Electronic structures of d ⁰ complexes by the DV-X α method	215 (1993) 93
Mundschau, M., see B. Rausenberger	215 (1993) 109
Murad, E., see R.A. Dressler	215 (1993) 656
Naaman, R., see Y. Hurwitz	215 (1993) 674
Nadjo, L., see B. Keita	215 (1993) 125
Nagao, H., K. Nishikawa and S. Aono, The Hückel model by means of the path integral method. II. Application to the square lattice system	215 (1993) 5

- Nair, K.P.R., see J. Hoelt 215 (1993) 371
- Nakajima, T., see H. Sekiya 215 (1993) 499
- Nakamura, Y., see M. Wakasa 215 (1993) 631
- Nakayama, T., T. Takahashi, K. Ibuki and K. Hamanoue, Intracomplex electron transfer upon direct excitation of a ground-state complex of benzophenone with 2,5-dimethyl-2,4-hexadiene 215 (1993) 622
- Nemeth, G.I., H.L. Selzle and E.W. Schlag, Magnetic ZEKE experiments with mass analysis 215 (1993) 151
- Ng, S.C., see I. Novak 215 (1993) 561
- Nguyen Vien, G., N. Rougeau and C. Kubach, H-atom exchange in low energy $\text{IH}(v=0) + \text{I}$ collisions. Effect of the potential energy surface 215 (1993) 35
- Nickel, B., see M.T. Wick 215 (1993) 243
- Nielsen, O.J., see E.L. Thomsen 215 (1993) 257
- Nishijima, M., see T. Takaoka 215 (1993) 523
- Nishikawa, K., see H. Nagao 215 (1993) 5
- Nishimura, Y., see H. Sekiya 215 (1993) 499, 641
- Nitta, A., see S. Yamamoto 215 (1993) 323
- Nizkorodov, S.A., V.I. Makarov, I.V. Khmelinskii, S.A. Kotschubei and K.A. Amosov, Time-resolved fluorescence of NO_2 in a magnetic field 215 (1993) 662
- Novak, I., S.C. Ng and A.W. Potts, The photoelectron spectrum of a chiral molecule CHFCIBr 215 (1993) 561
- Nunzi, J.-M., N. Pfeffer, F. Charra and D. Fichou, Picosecond photoinduced dichroism in sexithiophene thin films 215 (1993) 114
- Obi, K., see K. Saito 215 (1993) 193
- Obi, K., see A. Kawai 215 (1993) 203
- Okada, T., see A. Osuka 215 (1993) 179
- Olsson, L. and D. Cremer, Evidence for the existence of silylium cations in condensed phases 215 (1993) 433
- Ondřejček, M., W. Stenzel, H. Conrad, V. Cháb, Z. Chvoj, W. Engel and A.M. Bradshaw, Surface diffusion of K on $\text{Pd}\{111\}$ studied by photoemission electron microscopy 215 (1993) 528
- Ondrias, M.R., see M.C. Schneebeck 215 (1993) 251
- Ookubo, N., see M. Tomonari 215 (1993) 45
- Orlik, W., see Th. Reiners 215 (1993) 357
- Osuka, A., R.-P. Zhang, K. Maruyama, N. Mataga, Y. Tanaka and T. Okada, Determination of rates of hole transfer from free-base porphyrin to zinc porphyrin across aromatic spacers 215 (1993) 179
- Oswald, M., see P. Botschwina 215 (1993) 681
- Oswald, R., see P. Botschwina 215 (1993) 681
- Ozaki, Y., see H. Uehara 215 (1993) 505
- Parker, D.H., see G. van den Hoek 215 (1993) 461
- Partridge, H., see C.W. Bauschlicher Jr. 215 (1993) 451
- Pasinszki, T., T. Veszprémi and M. Fehér, The structure of beryllium pseudohalides 215 (1993) 395
- Pasternack, L., see R.E. McClean 215 (1993) 209
- Persson, A., see P. Erman 215 (1993) 173
- Petek, H., see H. Sekiya 215 (1993) 641
- Petelenz, P., Nonlocal polarizabilities in excited states of polyacene crystals 215 (1993) 607
- Pfeffer, N., see J.-M. Nunzi 215 (1993) 114

Pick, Š., see P. Mikušik	215 (1993) 319
Pilloud, D., see E. Vauthey	215 (1993) 264
Planeix, J.M., see P.M. Ajayan	215 (1993) 509
Poblet, J.M., see C. Sousa	215 (1993) 97
Poll, J.D., see C.G. Joslin	215 (1993) 144
Poluektov, O.G., see D.S. Tipikin	215 (1993) 199
Popovic, Z.D. and S. Mesbah, Slope to intercept ratio of low-field photogeneration efficiency in β -metal-free phthalocyanine	215 (1993) 636
Potts, A.W., see I. Novak	215 (1993) 561
Powell, B.M., see J.S. Tse	215 (1993) 383
Powis, I., Continuum MS-X α calculations for core and outer valence shell photoionization of PF ₃	215 (1993) 269
Protsykevych, I.A., see Yu.V. Kalyuzhnyi	215 (1993) 1
Quack, M., see Y. He	215 (1993) 228
Rachlew-Källne, E., see P. Erman	215 (1993) 173
Ranz, R., see Y. He	215 (1993) 228
Rao, C.N.R., see A. Chakrabarti	215 (1993) 591
Rassat, A., see B. Keita	215 (1993) 125
Rastomjee, C.S., see B. Rausenberger	215 (1993) 109
Rausenberger, B., W. Swiech, C.S. Rastomjee, M. Mundscha, W. Engel, E. Zeitler and A.M. Bradshaw, Imaging reaction-diffusion fronts with low-energy electron microscopy	215 (1993) 109
Ray, D., see R. Knochenmuss	215 (1993) 188
Reid, K.L., Effect of intermediate state depolarization on photoelectron angular distributions from molecules following (1+1') REMPI	215 (1993) 25
Reiners, Th., W. Orlik, Ch. Ellert, M. Schmidt and H. Haberland, Temperature dependence of the Na _n ⁺ optical response	215 (1993) 357
Reynhardt, E.C. and A. Wozniak-Braszak, Polymorphism and molecular motions in <i>n</i> -nonylammonium chloride	215 (1993) 493
Ricciardi, G., F. Lelj and F. Bonosi, Synthesis and physico-chemical properties of the bis(2,3,7,8,12,13,17,18-octakis-(octylthio)-5,10,15,20-tetraazaporphyrinato)lutetium(III) complex	215 (1993) 541
Riehl, K., see J. Holtgrave	215 (1993) 548
Rozak, S., see M. Vijayakumar	215 (1993) 87
Rozak, S., K. Balasubramanian, J.J. Kaufman and W.S. Koski, Multireference configuration interaction study of temporary anion states in haloforms	215 (1993) 427
Roth, S., see L. Akselrod	215 (1993) 131
Rougeau, N., see G. Nguyen Vien	215 (1993) 35
Rudich, Y., see Y. Hurwitz	215 (1993) 674
Ruhman, S., see A. Waldman	215 (1993) 470
Ruth, A.A., see M.T. Wick	215 (1993) 243
Sabelfeld, K.K., see B.Z. Gorbunov	215 (1993) 31
Sairanen, O.-P., H. Aksela, S. Aksela and M. Hotokka, Changes in molecular KLL Auger spectrum of fluorine on going from HF to LiF, NaF, and KF	215 (1993) 353
Saito, K. and K. Obi, The first observation of the $\tilde{A}^1B_1-\tilde{X}^1A_1$ transition of GeH ₂ and GeD ₂ radicals	215 (1993) 193

Sakaguchi, Y., see M. Wakasa	215 (1993) 631
Sakoda, K. and K. Kominami, Photochemical hole burning of porphin-cross-linked polymethylmethacrylate	215 (1993) 488
Salter, R.H., see R.A. Dressler	215 (1993) 656
Sawada, M., see T. Takaoka	215 (1993) 523
Sax, A.F., see J. Kalcher	215 (1993) 601
Schlag, E.W., see G.I. Nemeth	215 (1993) 151
Schlitter, J., Estimation of absolute and relative entropies of macromolecules using the covariance matrix	215 (1993) 617
Schmidt, J., see D.S. Tipikin	215 (1993) 199
Schmidt, M., see Th. Reiners	215 (1993) 357
Schneebeck, M.C., L.E. Vigil and M.R. Ondrias, Mode-selective energy localization during photoexcitation of deoxyhemoglobin and heme model complexes	215 (1993) 251
Sears, V.F., see J.S. Tse	215 (1993) 383
Sekiya, H., T. Nakajima, H. Ujita, T. Tsuji, S. Ito and Y. Nishimura, Proton tunneling in tropolone-Rg (Rg=Ar, Kr, Xe) van der Waals complexes	215 (1993) 499
Sekiya, H., M. Habu, H. Ujita, T. Tsuji, A. Mori, H. Takeshita, Y. Nishimura, H. Petek and K. Yoshihara, Dual fluorescence and excited-state intramolecular proton transfer in jet-cooled 3,4-benzotropolone	215 (1993) 641
Selzle, H.L., see G.I. Nemeth	215 (1993) 151
Senekowitsch, J., see L.J. Brenner	215 (1993) 63
Seyfang, G., see Y. He	215 (1993) 228
Shalabi, A.S. and A.M. El Misiery, Routes for LiF unit cell growth	215 (1993) 275
Shelton, D.P., see E.A. Donley	215 (1993) 156
Sickafoose, S.M., see S.G. Kukolich	215 (1993) 168
Singleton, S.M. and R.D. Coombe, Rate and mechanism of the $\text{NH}(a^1\Delta) + \text{Cl}_2$ reaction	215 (1993) 237
Sizaret, P.-Y., see B. Keita	215 (1993) 125
Smith, P.E. and W.F. van Gunsteren, The viscosity of SPC and SPC/E water at 277 and 300 K	215 (1993) 315
Solgadi, D., see S. Martrenchard-Barra	215 (1993) 291
Sousa, C., F. Illas, C. Bo and J.M. Poblet, Topological analysis of charge density in ionic solids	215 (1993) 97
Steele, W.A., see S.I. Temkin	215 (1993) 285
Stensgaard, I., see M. Foss	215 (1993) 535
Stenzel, W., see M. Ondřejček	215 (1993) 528
Stoll, H., see J. Gräfenstein	215 (1993) 611
Stolte, S., see G. van den Hoek	215 (1993) 461
Strömholm, C., see P. Erman	215 (1993) 173
Su, Y., see J.S. Francisco	215 (1993) 58, 417
Sundström, V., see U. Åberg	215 (1993) 388
Suppan, P., see E. Vauthey	215 (1993) 264
Suter, D., see T. Blasberg	215 (1993) 668
Svishchev, I.M. and P.G. Kusalik, Roto-translational motion in liquid water and its structural implication	215 (1993) 596
Swiech, W., see B. Rausenberger	215 (1993) 109
Szwarc, H., see B. Keita	215 (1993) 125

- Taatjes, C.A., see G. van den Hoek 215 (1993) 461
Takada, T., see M. Tomonari 215 (1993) 45
Takagi, N., J. Yoshinobu and M. Kawai, Direct observation of isothermal adsorption and desorption processes of CO on the Ni(100) surface 215 (1993) 120
Takahashi, T., see T. Nakayama 215 (1993) 622
Takaoka, T., Y. Yasui, M. Sawada, T. Aruga and M. Nishijima, Coadsorption of CO and C₂H₄ on Pd(110). Formation of a (3×2) mixed structure 215 (1993) 523
Takeshita, H., see H. Sekiya 215 (1993) 641
Tanabe, S., T. Ebata, M. Fujii and N. Mikami, OH stretching vibrations of phenol-(H₂O)_n (*n*=1-3) complexes observed by IR-UV double-resonance spectroscopy 215 (1993) 347
Tanaka, A., see K. Yamasaki 215 (1993) 483
Tanaka, Y., see A. Osuka 215 (1993) 179
Temkin, S.I. and W.A. Steele, MD simulation of rotational relaxation in liquid nitrogen. Comparison with NMR and Raman data 215 (1993) 285
Thompson, D.L., see K.L. Bintz 215 (1993) 455
Thomsen, C., see L. Akselrod 215 (1993) 131
Thomsen, E.L., O.J. Nielsen and H. Egsgaard, The reaction of nitromethane with hydrogen and deuterium atoms in the gas phase. A mechanistic study 215 (1993) 257
Thorn, J.C., see A.C. Legon 215 (1993) 554
Tipikin, D.S., Ya.S. Lebedev, O.G. Poluektov and J. Schmidt, ESE-detected EPR of triplet radical pairs produced by mechano-chemical treatment of 2,6-di-*t*-butylquinone diazide mixed with 3,5-di-*t*-butylpyrocatechon 215 (1993) 199
Tokue, I., see K. Yamasaki 215 (1993) 483
Tomonari, M., N. Ookubo and T. Takada, Missing-orbital analysis of molecular hyperpolarizability β calculated by a simplified sum-over-states method. Enhancement of the off-diagonal component β_{zzx} 215 (1993) 45
Törring, T., see J. Hoeft 215 (1993) 367
Trache, M., see F.M. Bénére 215 (1993) 301
Tronchet, J.M.J., see I. Komaromi 215 (1993) 444
Truong, T.N., see T.A. Holme 215 (1993) 53
Tse, J.S., B.M. Powell, V.F. Sears and Y.P. Handa, The lattice dynamics of clathrate hydrates. An incoherent inelastic neutron scattering study 215 (1993) 383
Tsuji, T., see H. Sekiya 215 (1993) 499, 641
- Uehara, H., K. Horiai, Y. Ozaki and T. Konno, Infrared diode laser spectroscopy of high-temperature molecules using spectrum processing by Fourier transformation 215 (1993) 505
Ujita, H., see H. Sekiya 215 (1993) 499, 641
Umanskii, I.M., see S.I. Vetchinkin 215 (1993) 11
- Vachev, V.D., J.H. Frederick, B.A. Grishanin, V.N. Zadkov and N.I. Koroteev, Stilbene isomerization dynamics on multidimensional potential energy surface. Molecular dynamics simulation 215 (1993) 306
Vaida, V., see K.O. Lantz 215 (1993) 329
Van den Hoek, G., M. Jonker, D.H. Parker, C.A. Taatjes and S. Stolte, Double-resonance measurements of vibrational levels populated by infrared multiphoton excitation of CF₃I in a molecular beam 215 (1993) 461
Van der Auweraer, M., see S. Depaemelaere 215 (1993) 649

- Vanderbilt, D., see F. Liu 215 (1993) 401
- Van Gunsteren, W.F., see P.E. Smith 215 (1993) 315
- Vauthey, E., D. Pilloud, E. Haselbach, P. Suppan and P. Jacques, The reliability of free ion yield in photoinduced electron transfer reactions. The model system 9,10-dicyanoanthracene/biphenyl in acetonitrile 215 (1993) 264
- Verhoeven, J.W., see S. Depaemelaere 215 (1993) 649
- Veszprémi, T., see T. Pasinszki 215 (1993) 395
- Vetchinkin, A.S., see S.I. Vetchinkin 215 (1993) 11
- Vetchinkin, S.I., A.S. Vetchinkin, V.V. Eryomin and I.M. Umanskii, Gaussian wavepacket dynamics in an anharmonic system 215 (1993) 11
- Viaene, L., see S. Depaemelaere 215 (1993) 649
- Vigil, L.E., see M.C. Schneebeck 215 (1993) 251
- Vijayakumar, M., S. Roszak and K. Balasubramanian, An efficient relativistic multireference configuration interaction method 215 (1993) 87
- Vlachy, V., see Yu.V. Kalyuzhnyi 215 (1993) 518
- Wakasa, M., Y. Nakamura, Y. Sakaguchi and H. Hayashi, Magnetic field effects on hydrogen abstraction of triplet xanthone with *p*-aminothiophenol in an SDS micellar solution 215 (1993) 631
- Walch, S.P., Characterization of the potential energy surface for $\text{CH}_3 + \text{O}_2 \rightarrow \text{products}$ 215 (1993) 81
- Waldman, A. and S. Ruhman, A femtosecond time-resolved transient bleach study of the benzene excimer 215 (1992) 470
- Wehrum, G., see G. Blasse 215 (1993) 363
- Wick, M.T., B. Nickel and A.A. Ruth, The $S_0 \rightarrow S_3$ transition in 1,2-benzanthracene. Experimental evidence for the statistical limit of vibronic coupling of S_3 with S_2 215 (1993) 243
- Williams, D.E., see Y. Xiao 215 (1993) 17
- Williams, S., see R.A. Dressler 215 (1993) 656
- Wittig, C., see H.F. Davis 215 (1993) 214
- Wozniak-Braszak, A., see E.C. Reynhardt 215 (1993) 493
- Wyatt, R.E., see L.J. Brenner 215 (1993) 63
- Xiao, Y. and D.E. Williams, Genetic algorithm: a new approach to the prediction of the structure of molecular clusters 215 (1993) 17
- Yamamoto, S., H. Mizuma, A. Nitta, N. Fukazawa, H. Fukumura and H. Masuhara, The initial photochemical process of triosmiumdodecacarbonyl adsorbed on the surface of silica as studied by picosecond diffuse reflectance laser photolysis and matrix isolation 215 (1993) 323
- Yamasaki, K., A. Tanaka, I. Tokue and Y. Ito, Spin-forbidden excitation of $\text{CF}_2(\tilde{a}^3\text{B}_1 \leftarrow \tilde{X}^1\text{A}_1)$ by collisions with $\text{N}_2(\text{A}^3\Sigma_u^+)$ 215 (1993) 483
- Yang, J., see C.G. Joslin 215 (1993) 144
- Yang, X., see P. Felder 215 (1993) 221
- Yashonath, S., see A. Chakrabarti 215 (1993) 591
- Yasui, Y., see T. Takaoka 215 (1993) 523
- Yoshihara, K., see H. Sekiya 215 (1993) 641
- Yoshinobu, J., see N. Takagi 215 (1993) 120
- Young, P.E. and I.H. Hillier, Hydration free energies of nucleic acid bases using an ab initio continuum model 215 (1993) 405

Zadkov, V.N., see V.D. Vachev	215 (1993) 306
Zapadinsky, E.L., see B.Z. Gorbunov	215 (1993) 31
Zeitler, E., see B. Rausenberger	215 (1993) 109
Zerne, R., see P. Erman	215 (1993) 173
Zhang, R.-P., see A. Osuka	215 (1993) 179
Zhiwu, P., see G. Blasse	215 (1993) 363
Zhu, P.W., Viscosity study of oligomer-induced coil-globule transition of a polystyrene	215 (1993) 627